From boatanchors@theporch.com Sat Oct 5 10:22:37 1996
From: MODSTEPH@ACS.EKU.EDU
Subject: "Back to Life..." addendum
Message-ID: <01IA9FG0Z0KO00253Y@ACS.EKU.EDU>

I forgot to mention: when I made the QSO with the Viking II I was using a Hallicrafters SX-100 to receive, another former recycling project!

73, Al N5AIT
modsteph@acs.eku.edu
Allan Stephens
Richmond, Kentucky

From boatanchors@theporch.com Sat Oct 5 18:54:12 1996
From: "Ray L. Mote" <rmote@rain.org>
Subject: 3579 xtals in FT-243 holders
Message-ID: <Pine.SUN.3.94.961005093705.15276B-100000@coyote.rain.org>

Impossible, you say? Not really..... there were these neat RCA FT-243 holders during WW2. Two screws going up between the pins into a top that pulls off, leaving contacts for the pins exposed. Solder the leads on your favorite BA rock to them, then slip the cover back on and secure it. I sent a dozen of 'em to a listmember who'd been laboriously hacksawing the top off the regular FT-243's just above the pins.
73.....Ray Mote, K5FKT <rmote@rain.org> ex-W6RIC

From boatanchors@theporch.com Sat Oct 5 10:22:37 1996
From: "Brian Carling" <bry@mail1.mnsinc.com>
Subject: 3579.5 kHz
Message-ID: <199610050331.XAA25197@user2.mnsinc.com>

Good signals from NA4G with the 2 watt Hartley osc.
Also heard Sandy W5TVW
I had to go - falling asleep. After all I was cheating iwth an FT-840
instead of an old tube xmtr.
Will have one soon though, you'll see!
Well done Bob - your 2 watts sounded like 50 watts here!

Bry, AF4K / G3XLQ

GN

Brian Carling in Gaithersburg, Maryland, USA
bry@mnsinc.com
http://www.mnsinc.com/bry/

From boatanchors@theporch.com Sat Oct 5 10:22:37 1996
From: "Brian Carling" <bry@mail1.mnsinc.com>
Subject: =?ISO-8859-1?Q?Re:_Back_to_Life_-_a_Tube,_er,=FF,_Heart-warming_Story?=
Message-ID: <199610050157.VAA20523@user2.mnsinc.com>

This reminds me of when I bought an old Globe King 400 rig a few
years back.

>   Considering the trouble Steve is having with the Ranger, maybe
> he should have kept the stored-in-a-barn Viking II - which I just
> used on a 20 meter CW qso (589 in New Mexico), its first QSO in over
> 20 years...

[snip]

>   I wanted to share my happiness at getting even the one QSO with
> the beast. It will only get better. Now if it didn't LOOK like it
> was stored in a barn... ;)

      73, Al N5AIT
Al - the Globe King came out of a barn somewhere in rural Tennessee
near where I lived at the time.
I like the beast. It used P-P TIODES in the final, and I NEVER could
make the stupid final amp STOP self-oscillating.
Worked on it for months, then I finally gave up and sold the thing!
What a pity. But I heard that the Globe King 500 was a far better rig
anyway!

Now I would be content just to find a Ranger I or II in good shape for a
bargain price and put it on the air!

That Viking II of yours sure seems to have a LOT of knobs!
More than a Valiant - right?

Bry, AF4K / G3XLQ
Brian Carling in Gaithersburg, Maryland, USA
bry@mnsinc.com
http://www.mnsinc.com/bry/

From boatanchors@theporch.com Sat Oct 5 10:22:37 1996
From: n6nae@ix.netcom.com (Richard Humphrey)
Subject: RE: Alternate to 51S-1

Message-ID: <199610050343.UAA23294@dfw-ix11.ix.netcom.com>

As an alternative to the 51S-1, how about the 51J-3 or -4?

Just how much difference is there in the design of the two receivers? Is the 51S-1 a repackaged and updated 51J-4? If it is, then a J-3 or -4, selling at $200 or so for a nice one, must be the bargain of the century. It doesn't have the style of the S line, but you get what you pay for, I suppose. I think the 51S-1 is quite a super $400 radio. What puzzles me is why they go for a $K or more.
Richard

From boatanchors@theporch.com Sat Oct 5 10:22:37 1996
From: Jim Garland W8ZR <4CX250B@miavx1.acs.muohio.edu>
Subject: RE: Alternate to 51S-1
Message-ID: <v03007808ae7c0cb8ec0a@[134.53.65.12]>

>As an alternative to the 51S-1, how about the 51J-3 or -4?
>
>Just how much difference is there in the design of the two receivers?
>Is the 51S-1 a repackaged and updated 51J-4? If it is, then a J-3 or
>-4, selling at $200 or so for a nice one, must be the bargain of the
>century. It doesn't have the style of the S line, but you get what you
>pay for, I suppose. I think the 51S-1 is quite a super $400 radio.
>What puzzles me is why they go for a $K or more.
>Richard

Hi Richard,

The 51J-4 and 51S-1 are completely different designs, mechanically and electrically. Weightwise, the 51J-4 weighs 43lbs, and the 51S-1 weighs 28lbs. The frequency range is also slightly different, with the 51J4 covering 540KHz-30.5MHz, and the 51S1 covering 200KHz-30.0MHz. I won't go into the circuit differences, except to note that the 51S1 is essentially a 2-30MHz receiver with a low-frequency convertor used to cover the lower bands. The 51J4 uses single, double, or triple conversion, depending on the band segment.

The market price of the 51S1 has grown quite high in recent years. A working, restorable, but somewhat beat-up wing emblem 51S1 might go for about $500 , while a mint condition round emblem 51S1 might command $2K.

Most 51S1s were purchased by the military or government, many designed for rack mounting, without cabinets. Users sometimes substitute KWM2 cabinets for their 51S1, but doing so requires cutting out a slot in the rear of the cabinet. From a collector's perspective, an original 51S1 cabinet is greatly preferred. If in doubt, look for a large factory sticker on the rear of the cabinet, just above the line cord.

Other things to look for: Stock 51S1s came with a small fiberglass adjustment tool, which stores in two slots on the left side of the chassis. The tool is usually missing from military surplus radios and is quite valuable. Although it cost about $.05 to make, having an original one will significantly enhance the collector value of your 51S1.

Also, the color of the s-meter is important. Most wing emblem 51S1s had a white meter face, while most round emblem ones had an amber face, intended for low ambient light levels. However, some late-model round emblem units were ordered with white meter faces, and these are greatly desired (since the amber meters are pretty ugly.) Sometimes people will put a white replacement meter into an amber meter unit, but you can tell if your radio was stock by looking at the panel lamps illuminating the dial. Amber units had only one lamp, while white meter radios had two.

Another collector "plus" is a mechanical dial lock, which appeared on late model round emblem receivers, and was a factory option on some others.

A matter of debate among 51S1 afficionados is the AM selectivity. Stock radios used two IF cans for selectivity, with a bandpass of about 16KHz. Strong AM stations sound great, but the selectivityi isn't adequate for most ham band use. A factory supplied kit replaced the IF cans with a 6KHz mechanical filter. Some like the improved selectivity, some don't. (I happen to like it.)

73,

Jim W8ZR

From boatanchors@theporch.com Sat Oct 5 10:22:37 1996
From: Nick England <nick@cs.unc.edu>
Subject: RE: Alternate to 51S-1
Message-ID: <199610051431.KAA17931@altair.cs.unc.edu>

And keep your eyes open for a black-face radio with strangely colored knobs that looks a lot like a 51S-1. LTV bought 51S-1 rcvrs and put a black front on them (internally lit plexiglas), funky avionics knobs, and a few extra connectors. The LTV G-133F is indeed a 51S-1 at heart, with little internal modification. I got one of these for $200 a couple of years ago. They are rare, but might carry a better price.
Nick KD4CPL

Nick England KD4CPL nick@cs.unc.edu   Univ. Of North Carolina
http://www.cs.unc.edu/~nick   Chapel Hill NC

From boatanchors@theporch.com Sat Oct 5 10:22:37 1996
From: Jim Garland W8ZR <4CX250B@miavx1.acs.muohio.edu>
Subject: RE: Alternate to 51S-1
Message-ID: <v0300780cae7c27973cc9@[134.53.65.12]>

>And keep your eyes open for a black-face radio with strangely colored
>knobs that looks a lot like a 51S-1. LTV bought 51S-1 rcvrs and put
>a black front on them (internally lit plexiglas), funky avionics knobs,
>and a few extra connectors. The LTV G-133F is indeed a 51S-1 at heart,
>with little internal modification. I got one of these for $200 a
>couple of years ago. They are rare, but might carry a better price.
>Nick KD4CPL
>-------
>Nick England KD4CPL nick@cs.unc.edu   Univ. Of North Carolina
>http://www.cs.unc.edu/~nick   Chapel Hill NC

Fair Radio Sales has a couple of LTV G-133F junkers. They've been pretty
much scavanged for internal parts, but might have some external knobs,
dials, etc. If your LTV-Collins clone is missing some trim parts, give them
a call.
Jim W8ZR

From boatanchors@theporch.com Sat Oct 5 18:54:12 1996
From: "E.V. Sandy Blaize" <ebjr@worldnet.att.net>
Subject: RE: Alternate to 51S-1
Message-ID: <19961005162000.AAA5033@LOCALNAME>

At 01:30 PM 10/5/96 +0000, you wrote:
>>As an alternative to the 51S-1, how about the 51J-3 or -4?
>>
>>Just how much difference is there in the design of the two receivers?
>>Is the 51S-1 a repackaged and updated 51J-4? If it is, then a J-3 or
>>-4, selling at $200 or so for a nice one, must be the bargain of the
>>century. It doesn't have the style of the S line, but you get what you
>>pay for, I suppose. I think the 51S-1 is quite a super $400 radio.
>>What puzzles me is why they go for a $K or more.
>>Richard
>
>Hi Richard,
>

>The 51J-4 and 51S-1 are completely different designs, mechanically and
>electrically. Weightwise, the 51J-4 weighs 43lbs, and the 51S-1 weighs
>28lbs. The frequency range is also slightly different, with the 51J4
>covering 540KHz-30.5MHz, and the 51S1 covering 200KHz-30.0MHz. I won't go
>into the circuit differences, except to note that the 51S1 is essentially a
>2-30MHz receiver with a low-frequency convertor used to cover the lower
>bands. The 51J4 uses single, double, or triple conversion, depending on the
>band segment.
>
>The market price of the 51S1 has grown quite high in recent years. A
>working, restorable, but somewhat beat-up wing emblem 51S1 might go for
>about $500 , while a mint condition round emblem 51S1 might command $2K.
>
>Most 51S1s were purchased by the military or government, many designed for
>rack mounting, without cabinets. Users sometimes substitute KWM2 cabinets
>for their 51S1, but doing so requires cutting out a slot in the rear of the
>cabinet. From a collector's perspective, an original 51S1 cabinet is
>greatly preferred. If in doubt, look for a large factory sticker on the
>rear of the cabinet, just above the line cord.
>
>Other things to look for: Stock 51S1s came with a small fiberglass
>adjustment tool, which stores in two slots on the left side of the chassis.
>The tool is usually missing from military surplus radios and is quite
>valuable. Although it cost about $.05 to make, having an original one will
>significantly enhance the collector value of your 51S1.
>
>Also, the color of the s-meter is important. Most wing emblem 51S1s had a
>white meter face, while most round emblem ones had an amber face, intended
>for low ambient light levels. However, some late-model round emblem units
>were ordered with white meter faces, and these are greatly desired (since
>the amber meters are pretty ugly.) Sometimes people will put a white
>replacement meter into an amber meter unit, but you can tell if your radio
>was stock by looking at the panel lamps illuminating the dial. Amber units
>had only one lamp, while white meter radios had two.
>
>Another collector "plus" is a mechanical dial lock, which appeared on late
>model round emblem receivers, and was a factory option on some others.
>
>A matter of debate among 51S1 afficionados is the AM selectivity. Stock
>radios used two IF cans for selectivity, with a bandpass of about 16KHz.
>Strong AM stations sound great, but the selectivityi isn't adequate for
>most ham band use. A factory supplied kit replaced the IF cans with a 6KHz
>mechanical filter. Some like the improved selectivity, some don't. (I
>happen to like it.)
>
>73,
>
>Jim W8ZR

>
>
> An additional note:

I would advise any prospective buyer of a 51S-1 at present prices, to make sure it functions normally on ALL bands. The RF coils are on very small turret discs and are difficult to find replacements for. I have seen many of these receivers in commercial service where there was a seperate receiving antenna system. (i.e.: aboard ship, typically) They sometimes have large RF voltages induced into the front ends, resulting in charred/overheated inductors. The same thing is common is the 51J-3/4 series as well.

If I were to "pick" between the two series, my choice would be the 51J receivers.
The overall quality was higher, they were built better and were not as prone to give trouble in the field. If compactness and lightness is important to you, then choose the 51S-1. They are both excellent products of Cedar Rapids!

73,

E. V. Sandy Blaize, W5TVW
"Boat Anchors collected, restored, modified, traded & used!"
ebjr@worldnet.att.net
417 Ridgewoood Drive
Metairie, LA., 70001
{Still looking for a Hallicrafters SR-75!}

From boatanchors@theporch.com Sat Oct 5 18:54:12 1996
From: Mike Flicinski <k2uxe@ibm.net>
Subject: Ameco CN Converter data needed
Message-ID: <3256E337.395B@ibm.net>

I picked up a 144 mc. Ameco converter and power supply and it is set up right now for 50 - 54 mc. IF. Does anyone have the instruction data for the CN converters? I read in the Sept 1962 QST product review of the CN converters that they were designed to easily change the LO and multiplication to different IFs. I can probably figure it out but a little time could be saved with the original instructions.

As you will likely hear here... the Belton TX hamfest was a great BA fest!

Mike Flicinski
K2UXE
k2uxe@ibm.net

From boatanchors@theporch.com Sat Oct 5 18:54:12 1996
From: k1zat@dsport.com
Subject: Re: Ameco CN Converter data needed
Message-ID: <Pine.GSO.3.95.961005185411.18643A-100000@puff>

Mike

Assume that you have the CN-144, tube compliment is two
6CW4's and a 6J6.

> I picked up a 144 mc. Ameco converter and power supply and it is set up
> right now for 50 - 54 mc. IF. Does anyone have the instruction data for
> the CN converters?

This converter can be may be output anywhere between .5Mhz and
55 Mhz. You'll have to change the crystal to make it work.

Outputs at	Crystal Frequency is
7-1 Mhz	45.6667
10-14 Mhz	44.6667
14-18 Mhz	43.3333
26-30 Mhz	39.3333
28-32 Mhz	38.6667
30.5-34.5 Mhz	37.8333
50-54 Mhz	31.3333

> I read in the Sept 1962 QST product review of the CN converters that
> they were designed to easily change the LO and multiplication to
> different IFs.

They are fairly simple to move around. Some windings on L7 Link
and L6 Jumper have to be "tinkered" with. You'll need a VTVM or
voltmeter of some sort, a signal source, receiver and alignment
tools.

> I can probably figure it out but a little time could be saved with the
> original instructions.

I have an original set, copy available if you like.

jd

From boatanchors@theporch.com Sat Oct 5 10:22:37 1996
From: John Wieder <jwieder@gunnison.com>
Subject: Another Ranger question
Message-ID: <199610050143.TAA00572@gunnison.com>

Just acquired a nice Ranger 2 but a couple questions for you Ranger Elmers.

1. Can anyone tell me where to find the proper size 2 prong plug that matches the holes on the back for hooking up a 110 v relay?

2. When switching over to receive the Ranger vfo continues to oscillate strong enough in the STDBY position that I must switch over to a XTAL position to shut it down so I can receive. Any ideas?

Thanks in advance for any help you might have.

73   John WA0JYJ   jwieder@gunnison.com

From boatanchors@theporch.com Sat Oct 5 10:22:37 1996
From: MODSTEPH@ACS.EKU.EDU
Subject: Re: Another Ranger Question
Message-ID: <01IA9FB16XWI00253Y@ACS.EKU.EDU>

>>>
1. Can anyone tell me where to find the proper size 2 prong plug that
matches the holes on the back for hooking up a 110 v relay?
<<<

That Johnson plug is well nigh impossible to find (or has been for me). I think it might be the same spacing as the small-pin crystals (might check the spacing to be sure), one of which you could cannibalize acn make a plug from it.

I just use #18 lamp cord and tin the wires: makes them stiff enough to plug in.

73, Al N5AIT
modsteph@acs.eku.edu
Allan Stephens
Richmond, Kentucky

From boatanchors@theporch.com Sat Oct 5 10:22:37 1996
From: Jim Garland W8ZR <4CX250B@miavx1.acs.muohio.edu>
Subject: RE: Another Ranger Question

Message-ID: <v03007801ae7c023172be@[134.53.65.12]>

I made my own connector for the relay socket on the back of my Ranger II, and it seems to work well. I cut a small rectangular piece of glass epoxy circuit board, sized to fit into the shell of a DB-9 connector. I thin drilled two holes into the board, spaced to fit the relay socket pins and expoxied two 1 inch pieces of (no. 10 or 12 -- I forget which) tinned wire into the glass-epoxy board. I left about 3/16 inch of wire protruding out the back side of the board, for attaching a cable. After the epoxy set, I mounted the assembly in a DB-9 shell (available from Radio Shack). It makes a satisfactory and reasonably attractive connector. Construction time: 20 minutes

73,

Jim W8ZR

From boatanchors@theporch.com Sat Oct 5 18:54:12 1996
From: "William B. Ross" <billross@txdirect.net>
Subject: Re: Another Ranger question
Message-ID: <3256CEEE.52D3@txdirect.net>

AH, the elusive 2 prong plug for the Ranger!

Well, It ain't a crystal socket plug, that's for sure.
All kiding aside, I nor any one I know has ever found a plug to fit that socket. A proper plug came with the Ranger, as it dis with the Valiant, but outside of the ones furnished by Johson, I don't believe there is a replacement.

Please, sombody prove me wrong and tell me where to get one.

Bill K5LLK

From boatanchors@theporch.com Sat Oct 5 18:54:12 1996
From: "E.V. Sandy Blaize" <ebjr@worldnet.att.net>
Subject: Re: Another Ranger question
Message-ID: <19961005214206.AAA29766@LOCALNAME>

At 09:07 PM 10/5/96 +0000, you wrote:

>AH, the elusive 2 prong plug for the Ranger!
>
>Well, It ain't a crystal socket plug, that's for sure.

YES IT IS! TRY A STANDARD HC-6/U CRYSTAL IN IT! That's what fits in the back of my Ranger 2! No doubt.

>73,

E. V. Sandy Blaize, W5TVW
"Boat Anchors collected, restored, modified, traded & used!"
ebjr@worldnet.att.net
417 Ridgewoood Drive
Metairie, LA., 70001
{Still looking for a Hallicrafters SR-75!}

From boatanchors@theporch.com Sat Oct 5 18:54:12 1996
From: lblaske@pclink.com (Lee Blaske)
Subject: B & W 5100B Question
Message-ID: <v02130500ae7c431a620b@[206.11.0.98]>

I have a friend who recently picked up a B & W 5100B in a sorry state of repair. He's getting things under control, but has a question regarding the heater that's part of the tuning circuit.

This component is mounted on ceramic stand-offs, and consists of two mica wafers with what must be nichrome wire inside. It's apparently designed to get really, really hot.

The schematic number is R525, and the B & W part # is T-588. It's called "special heater resistor wirewound." The resistance or wattage rating of this part is not listed. What's left of the original measures 32 ohms, but the suspicion is that the resistance would change quite a bit when power was applied to it.

Does anyone have one of these that they'd be willing to part with? Does anyone know what the correct value should be? Has anyone successfully replaced this with a more modern part?

Any input would be greatly appreciated.

73,

Lee AA0EF

From boatanchors@theporch.com Sat Oct 5 18:54:12 1996

From: "Benjamin D. Hall" <bdhall@ghgcorp.com>
Subject: BA's for sale
Message-ID: <3256A825.6D8F@ghgcorp.com>

Hello everyone. I've found myself in a bad financial situation, plus it looks as if I am going to be changing jobs at worst sometime soon, and that may include a move. So, I am offering the following for sale. I'd prefer pick-up, but I will ship if that makes the deal. Prices don't include shipping, and are negotiable. If you think my prices are crazy, make an offer. I might consider trades, but the focus is to try to reduce my moving load.

* Hammarlund HQ-140XA, with original manual and matching speaker. Very good cosmetic condition, only front panel blemish is that the paint is worn in a little moon around the bandspread dial, otherwise a stingy very nice. Dial windows could stand a little polishing. Internally, it has some corroision and blemishes but is good. Electrically, I haven't peeked under the chassis, but it works well and has only one paper cap in the whole set per the manual. The rest are ceramics, silver micas, air variables, trimmers, and electrolytics. Selling it becuase I have an HQ-150 that is basically a 140XA plus a nice Q-multiplier. A very nice unit. $260

* National NC-100A "Special" (this is what Moore calls it) with low freq band rather than AM broadcast. Cosmetically on the outside, it appears that the case was repainted, but the panel that holds the s-meter, glass dial window, and main tuning knob looks original. It has some light rust. There is a little paint on the scales for the control knobs, but it probably won't be hard to touch up. On the inside, it has rust on the transformers, and is a little dirty. I have only found one other person with the "Special" low freq version, so I think it may be somewhat rare which is why I'd like to get $175 for it. I am selling it becuase I am just never going to get around to it.

* Tektronix Type 564 Storage O-Scope. Saved it from a wife's wrath, seems to work well except I cannot get any output out of the calibrator, and the storage function isn't too great in my opinion. Cute. Luggable to job site for people who love BA's but a Tek 543 or equivalent is too heavy to move all the time. Needs de-oxit'ing. Sticker indicates CRT was replaced in 1973, while my Mom was pregnant with me. $60

* Kepco 0-400 VDC power supply minus one module, with four 6550 tubes. Kepco wasn't real co-operative on the phone. Good for parts, has transformers, the 6550's, old style diodes, 0-400 VDC and 0-600 mA meter, rack mount. $15, shipping is going to be a bear as this is a heavy unit.

* A pair of Tek K plugins. Actually, on is a K and the other is a

53/54K, same thing different nomenclature. One works good, the other has problems. $10 for the pair.

* 5V 100 amp power supply. Works sort-of, free for pickup.

* Hallicrafters type RUP aero receiver, made for the CAA (now FAA). Unknown electrical condition, $25 or best offer, pick-up only as it is too heavy to ship. I have no interest in it, but it is a cool remotely tunable BA so I thought someone might like it. Halli collectors?

* Javelin 9" B+W monitor, works, in original box with manual, tell me what you need it for and it is yours for the shipping. It's not BA, but could be used with BA equipment.

Thanks and 73,
Ben

```
--
----------------------------------------------------------------------
 From the computer of            | Collector of fine firebottle
 Benjamin D. Hall, Houston Texas | equipment, as well as other things
 BDHall@GHGCorp.com -or-         | involving Earth, Air, Water, and
 BHall@GP802.JSC.NASA.gov        | Fire.
----------------------------------------------------------------------
 "When you clock the human race with the stopwatch of history, it's a
 new record every time."
```

From boatanchors@theporch.com Sat Oct 5 10:22:37 1996
From: KA9EGW@aol.com
Subject: basic transformer color coding
Message-ID: <961004234242_202472231@emout14.mail.aol.com>

it's in the construction-practices chapter of any old ARRL Handbook.

What I remember off the top of my head is

black--primary

red--HV
red/yel--HV CT

grn--fil
grn/yel or grn/blk--fil CT

yel--rectfier filament (often 5VAC)

I know there's at least 2 other colors (slate and blue), but off the top of my head I don't remember.

```
From boatanchors@theporch.com  Sat Oct  5 10:22:37 1996
From: "E.V. Sandy Blaize" <ebjr@worldnet.att.net>
Subject: Be on the lookout at Belton!
Message-ID: <19961005000117.AAA5843@LOCALNAME>
```

BA affectionados:

Keep an eye peeled for the elusive, yet not expensive(according to Chuck Dachis) Hallicrafters SR-75 transceiver. Been hunting for a restorable or even working one. Have fun, wish I could be there to add to the early morning mayhem
where the gear is being unloaded!

73,

E. V. Sandy Blaize, W5TVW
"Boat Anchors collected, restored, modified, traded & used!"
ebjr@worldnet.att.net
417 Ridgewoood Drive
Metairie, LA., 70001
{Still looking for a Hallicrafters SR-75!}

```
From boatanchors@theporch.com  Sat Oct  5 18:54:12 1996
From: jmiller@teleteam.net (Jay H. Miller)
Subject: Belton Hamfest/Tube Tester
Message-ID: <v01540b00ae7c8b159109@[199.34.24.20]>
```

Wow-- what a haul!

Tons (literally) of boatanchors at the Belton (Texas) Hamfest. More old stuff than new stuff this year. Several nice estates with plenty of goodies. Prices moderate to high on stuff and many bargains for the early birds (who got there before the sharks) and the careful shoppers. Deal of the show may be the Collins 75S-1 (with CW filter) that finally went for $75-- no kidding.

Great time. Cool weather. Lots of BA types known and unknown. Definately a worthwhile trip for anyone in Texas.

Lots of neat stuff came home with me (some stuff will appear here later as I knew many readers would like to have a chance at some nice paper items).

Anyone have an idea as to what a I-177-B tube tester is? Sure looks like a TV-7 to me but no manual so I'm a-looking. Has a US Navy/University of

Texas property tag on it and a Signal Corps ID plate as well.

73

```
   *********** ################### ***********
   Jay H. Miller, KK5IM            Dallas, Texas
The Pocket Guide to Collins Amateur Radio Equipment
    AMI#846      Collins Collectors Association
             jmiller@teleteam.net
   *********** ################### ***********
```

From boatanchors@theporch.com Sat Oct 5 10:22:37 1996
From: rem@us.edu (R.E.Morgan)
Subject: books and misc. for sale
Message-ID: <1.5.4.32.19961005145941.006cc17c@us.edu>

List 7, October 5, 1996

All items may be returned if not acceptable for any reason.   All I ask is that the buyer pay for return shipping. I try to describe significant defects and features, but Iíd be happy to answer questions. However, I think the "first offer gets it" policy is the fairest.   PRICES INCLUDE SHIPPING VIA UPS OR USPS (first, third, or fourth class, depending on weight).   Please, no phone calls.

Bob Morgan, K8RBV

Juvenile Radio Fiction, unsold, so reduced in price:

1. The Short Wave Mystery, Franklin W. Dixon, 1945, good, $6.00
2. The Motor Boat Club and the Wireless, H. Irving Hancock, 1909, spine a little loose, but excellent for its age, $12.00
3. The Boys of the Wireless, Frank V. Webster, 1912, cover good, loosening a bit, nearly good especially for its age, $12.00
4. Radio Boys Loyalty or Bill Brown Listens In, Whipple and Aaron, 1922, in the brown, not blue type cover ñ a little harder to find, $8.00
5. Janet Hardy in Radio City, Ruthe S. Wheeler, 1935, about broadcasting more than amateur wireless, front cover loose, $6.00
6. Stand By - The Story of a Boyís Achievement in Radio, Hugh McAllister, 1930, yellowing a bit, $6.00
7. Tom Turnerís Adventures with the Radio, St. George Rathborne, 1924, a smaller size hardback book, very rare, $15.00

 ******** end juvenile fiction

8. The Radio Amateurís Handbook, A.Frederick Collins (not ARRL), ex library, 1970, $6.00

9. Radio Handbook, William Orr, 1970, $7.00
10. Electronics for Scientists, Malmstadt et. All, 1962, $6.00
11. Television for Radiomen, Edward Noll, 1949 (!), $10.00
12. Radio Handbook, 11 th ed., 1947, large size, $12.00
13. Electronics Magazine, July - Dec., 1944, bound into hardback volume, heavy !, $15.00
14. The Cathode Ray Tube at Work, John F. Rider, with dust jacket, 1950, $6.00
15. Microphones, Martin Clifford, 2 nd ed., 1962, $6.00
16. QST Magazine, July to Dec., 1947, hardbound, green with gold trim, $12.00
17. Electricity, Basic Navy Training Courses, Navpers 10622-B, paper, 1951, $5.00
18. Principles of electricity Applied to Telephone and Telegraph Work, AT&T, 1939, $15.00
19. Radio Handbook, editors of "Radio" magazine, 5 th ed., 1938, paper, poor cover, $5.00
20. Aviation Electronics Technician 1 & C, Navy Training Course, Navpers 10318-a, paper, 1961, $7.00
21. VHF/UHF Fire, Police, Ham Scanners ñ Schematic/Serviceing Manual, Norman, 1976, paper, ex library, $6.00
22. Television: Techniques for Planning and Performance, Becker et al, 1958, $6.00
23. The People Look at Radio, survey book on how people see radio, 1946, $6.00
24. Heavy Electrical Engineering, H.Hobart, 1908, technical, cover loose, $10.00
25. Sir Oliver Lodge, W.P. Jolly, 1975, with jacket, $6.00
26. Sarnoff ñ An American Success, Carl Dreher, 1977, with jacket, $8.00
27. From Immigrant to Inventor, 1934, autobiography of Pupin, ex lib, $8.00
28. Another copy of 27, not ex lib, 1930, $9.00
29. David Sarnoff, Eugene Lyons, 1966, jacket, $9.00
30. Loki, The Life of Steinmetz, J. Leonard, 1929, excellent cond., $12.00
31. Set of Ameco code records (45 RPM) in original shipping box with manual, est. 1959, $20.00
32. Dustinís Radio Log and Call Book, small pamphlet, cover off, 1923, with handwritten entries and a list of stations, $7.00

I *still* have many (too many to list) magazines (some prices reduced):

QST from 1930 - 1942 which are available at $4.00 per issue (postage included)

I also have issues of 73 magazine from 1961 (vol.1 of the mag) - 1968 which are available at $4.00 per issue (postage included). The ads in these mags are great!

I also have CQ magazines 1946 (second year of the magazine) - 1949 which are available at $4.00 per issue.

Send me your wants for an email response as to whether I have it or not.

Reminder: Prices INCLUDE shipping.

From boatanchors@theporch.com Sat Oct 5 10:22:37 1996
From: Jim Garland W8ZR <4CX250B@miavx1.acs.muohio.edu>
Subject: Collins 30L-1 Line Voltage Data
Message-ID: <v03007800ae7b78ae86d8@[134.53.65.12]>

Hi Folks,

This info is intended to supplement my posting of a few days ago about the 30L-1, and its dependence on power line voltage. In the posting, I promised to share the dependence of the filament voltage on the 811As with power line voltage. Here is the data, measured with HP lab grade instruments. All measurements were made in standby mode (811As biased to cutoff), which is the worst-case situation so far as tube filaments are concerned. Filament voltages were measured directly at the socket pins.

Line Voltage	Line Current	Power	Fil. Voltage
105	1.26A	132W	5.50
110	1.32A	145W	5.78
115	1.38A	159W	6.02
120	1.45A	174W	6.32
125	1.50A	188W	6.57

Conclusions: These measurements, combined with the results of my previous posting, suggest that the 30L-1 may be safely operated at line voltages up to about 122V without regard to amplifer or tube damage. Line voltages as high as 125V will produce filament voltages marginally above the tube filament specifications, but probably would cause negligible shortening of tube life.

73,

Jim W8ZR

From boatanchors@theporch.com Sat Oct 5 10:22:37 1996
From: John Kolb <jlkolb@cts.com>
Subject: Re: digital frequency display
Message-ID: <Pine.SCO.3.91.961004172949.8220B-100000@sd.cts.com>

On Fri, 27 Sep 1996, Steve Byan wrote:

> I'd like to put together a digital counter capable of compensating for two
> or three IF's to use as a frequency display for my boatanchors. I know
>
> Is there a source for a PC board or kit for a BA frequency display? As a
> last resort, does anyone manufacture assembled frequency displays?
>

>From ads in the Collins Journal and Nuts & Bolts
magazine, there are at least 3 companies currently making
add on digital freq counters. I don't know if any of these
measure more than just the main VFO, but it's a start.

S&S Engineering   Send SASE for info
14102 Brown Road,
Smithsburg, MD 21783
(301) 416-0661
Kit $69.96 Kit w/case $99.95 Assembled w/case$139.95
S&H $6.00

Grand system digital automatic calculation display
Grand Inc.
P. O Box 2230
Blaine WA 98231
Phone/FAX (604) 534-9993

Palomar Engineers
Box 462222,
Escondido CA 92046
Phone (619) 747-3343
Fax (619) 7473346
PD-700 $199.95 + $6 S/H US

73

John Kolb KK6IL

From boatanchors@theporch.com Sat Oct 5 10:22:37 1996
From: Eugene Rippen <soundval@foothill.net>
Subject: FS ELMAC PMR6A
Message-ID: <3255B377.2EAC@foothill.net>

I advertised one of these about a week ago, immediately sold it, and if I
remember correctly, I had 2 other inquiries.

SO!

Today I found 2 more Elmac PMR6A Ham Band only 6vdc receivers.
Both are fair to good looking faces. Rest of case is fair to poor looking.
They look like they had mobile use. They look otherwise complete.
One with a good dial glass is $25.
One with cracked dial glass is $20.
Add shipping costs. About 7 pounds shipping weight?

Gene

Eugene Rippen
105 Donnington
Auburn, CA 95603   No Phone Calls Please
Email   soundval@foothill.net

From boatanchors@theporch.com Sat Oct 5 10:22:37 1996
From: Chuck Penson <penson@sci.mus.mn.us>
Subject: FS: Heath manuals
Message-ID: <3255CB1D.84C@sci.mus.mn.us>

I spent last night weeding out my manuals library and found duplicates of the following Heathkit books. Unless otherwise noted these are complete original books and are in good (or at least reasonable) condition. I will ship them to you for $20 each. I would also entertain bids on the whole lot.

Thanks!

DX.20 (copy-condensed) $8
DX.35 (copy-condensed) $8
DX.40 (copy-entire manual) $12
GC.1A (copy-condensed) $8
GD.1184
GD.125 (back cover loose)
GR.110
GR.64
HA.202A
HD.1424
HD.1481
HD.15
HD.4040 (illustration packet missing) $12
HD.8999
HM.102

HN.31 $10
HP.23B
HR.1680
HS.24 $10
HW.101
HW.104
HW.17 (no back cover)
HW.17A
HW.19
HW.22A
HW.22A (no covers) $12
HW.29A
HW.7
HW.8 (copy-condensed) $8
HW.8 (no covers) $15
HW.9
PS.23
QF.1
SA.1480
SA.5010 service data manual $25
SA.5010A
SB.102
SB.200
SB.221
SB.230
SB.301
SB.310
SB.313
SB.401
SB.600 $10
SB.604
SB.610
SB.614
SB.620
SB.630
SB.634
SB.644A
SB.650
SW.7800
XC.2

--
Chuck Penson
Education Division
Science Museum of Minnesota

penson@sci.mus.mn.us

612.221.4510 voice
612.224.5092 fax
http://comped.sci.mus.mn.us

Standard Disclaimer: The opinions expressed are etc. etc. ...

"Nothing is too wonderful to be true" -- Michael Faraday

From boatanchors@theporch.com Sat Oct 5 18:54:12 1996
From: John Kolb <jlkolb@cts.com>
Subject: FS: R-390 coax extender cables
Message-ID: <Pine.SCO.3.91.961005163208.24226A-100000@sd.cts.com>

Picked up some cables today that have the minature BNC connector on each end, as used in R-390's. (What's the proper name for that connector anyway?) About 8 feet long. $3.00 each plus a buck for shipping.

John Kolb   KK6IL   jlkolb@cts.com

540 S. Kalbaugh St.
Ramona, CA 92065

From boatanchors@theporch.com Sat Oct 5 18:54:12 1996
From: "Jim Wilson-EJW012" <Jim_Wilson-EJW012@email.mot.com>
Subject: H-P 403B Voltmeter batteries?
Message-ID: <Macintosh */PRMD=MOT/ADMD=MOT/C=US/@MHS>

From: Wilson-EJW012 Jim on Sat, Oct 5, 1996 7:28 PM
Subject: H-P 403B Voltmeter batteries?

I picked up an H-P 403B AC Voltmeter last week, but it needs NiCd batteries. The manual calls for 4 NiCd batteries at 6.5 volts and 225 mAh. Since the nominal NiCd cell is 1.2 v, I'm not sure if I should use 7.2 v or 6.0 v. Anyone have one of these and know a source for batteries? Thanks, jim

----
Jim Wilson
3815 NW 72 Dr.
Coral Springs, FL 33065-2244
tel: 954-723-4532 (day); 954-341-3306 (eve)
fax: 954-723-5064

email: EJW012@email.mot.com

From boatanchors@theporch.com Sat Oct 5 18:54:12 1996
From: dma@IslandNet.com (Jan Skirrow)
Subject: Re: Hammarlund Stuck Coils, continued..
Message-ID: <m0v9akm-000FahC@island.amtsgi.bc.ca>

>If the slug is cracked, and broken into more than two pieces (some of mine
>were) things get nasty. The slug edges bite into the form when attempting to
>loosen with a tool. Continuing to attempt to force a broken slug to turn will
>make the fit even more permanent. Heat seems to expand the slug pieces,
>compounding the problem even more, as they 'bite' even further into the form
>insides. My best recommendation is to use a dremel tool to grind out the slug
>from the inside, hopefully reaching a point where pieces can be removed with
>pliers, etc. Finding a replacement slug, or adapting a non-threaded slug with
>a threaded shaft to fit is probably going to be a lot easier to do than a
>sucessful salvage of the old slug. Drift characteristics can be affected, so
>don't be surprised if you notice such changes after messing with the
oscillator
>coils.

My recent (long) post on restoring an HQ-100 goes into this problem. I considered using my Dremel tool, but decided not to because of the difficulty of holding the coil safely while working on it, and the ease with which the Dremel could damage the coil form if I slipped! Also, the underchassis wiring for the oscillator and mixer coils was so dense, that to remove the coils would have committed me to stripping the whole section down to the chassis, and starting fresh. but also risking damage to the bandswitch and the cheap plastic coil bases, etc. I always prefer leaving as much of the original stuff intact. Of course, if the coils are open, or broken loose from their base, the problem is much different!

If the core is cracked or chipped at all, I found that they were very easily removed with a small (1/16" tip) jewellers scredriver used as a chisel, and a 6" screwdriver handle used as a (gentle) tapper. The cores invariably broke up quite easily, with the chunks either shaking out or removable with tweezers. No damage to the coil form occurred. A 1/4" drill bit - hand held - easily and neatly enlarged the top hole in the can first, and a new core could be inserted afterwards. If it's only the bottom core that needs breaking up, just remove the top one through the enlarged hole, and chip away.

Worked real good!

Jan Skirrow, VE7DJX
dma@islandnet.com

Duncan, British Columbia

From boatanchors@theporch.com Sat Oct 5 10:22:37 1996
From: k7yha@juno.com (Richard H. Arland)
Subject: Heathkit Keyer Model HD-1410
Message-ID: <19961005.151327.7839.1.k7yha@juno.com>

Gang: Thanks to all who replied with the model number.

Anyone out there have a HD-1410 keyer/paddle set they want to unload?

73 rich K7YHA

From boatanchors@theporch.com Sat Oct 5 18:54:12 1996
From: k7yha@juno.com (Richard H. Arland)
Subject: Heathkit SB-620 Scanalyzer/HD-1410 keyer
Message-ID: <19961005.220633.7839.3.k7yha@juno.com>

Gang:

Located all the bits and pieces for my heath station except the SB-620 scanalyzer (panoramic adapter) and the HD-1410 keyer. If anyone has either of these that they want to part with, please contact me via private e-mail.

73 es tnx.

rich K7YHA

From boatanchors@theporch.com Sat Oct 5 18:54:12 1996
From: Steve Ellington <n4lq@iglou.com>
Subject: How to fix Ranger drive
Message-ID: <Pine.GSO.3.93.961005122619.25142A-100000@iglou1>

Finally the vfo drive for the Ranger is fixed. Here's the procedure.

1. Take front panel off.
2. Using long screwdriver, reach though hole under vfo and loosen set screw for drive shaft

3. Remove reduction drive.

4. Threads are brass and I couldn't get mine to unscrew without buggering

them. Lay the large nut part on your bench grinder and grind the threads flat on 2 sides. Nut will still go back on.

5. Put drive in vise, jaws around flattened sides.

6. Using wrench, unscrew the large brass nut.

7. Slide guts out. My 2 ball bearings would not come out. They must be pressed in.

8. Heat the shaft over a candle until the greasy gunk begins to boil out the end of the shaft.

9. Spray it all with WD-40 or degreaser, removing all skuz and make sure the bearings are free to spin.

10. oil the bearings and washers with light machine oil.

11. Reassemble making sure cupped side of the 2 washers face toward bearings.

12. Put whole mess back together and check for sufficient torque to turn vfo capacitor.

Note how smooth it is and grin like a possum.

Steve Ellington N4LQ@IGLOU.COM Louisville, Ky

From boatanchors@theporch.com Sat Oct 5 18:54:12 1996
From: Allison Smith <allison9@concentric.net>
Subject: HQ-145-X
Message-ID: <3256CFAB.5D4F@concentric.net>

I have a HQ-145-X and I need to know what type of xtal to use at 10,000 for wwv
If some has the manulal could you look it up and get back to me.
THX ALLISON SMITH N2TOZ

From boatanchors@theporch.com Sat Oct 5 18:54:12 1996
From: Scott Townley <nx7u@primenet.com>
Subject: Re: Inductance Calculations by Grover
Message-ID: <1.5.4.16.19961005143141.340f07ac@mailhost.primenet.com>

At 17:00 02.10.1996 -0500, Barry L. Ornitz wrote:
>John Poulton asked:
>

>> Anyone out there have a copy of Frederick Grover's
>> 1946 text "Inductance Calculations" that they'd be
>> willing to part with?
>

Sorry John, I missed the original message: I have one for you. Contact me directly.

```
Scott Townley           "When the Going gets Weird,
nx7u@primenet.com       the Weird turn Pro"
                   -Dr. Gonzo, Sports Editor
```

From boatanchors@theporch.com Sat Oct 5 18:54:12 1996
From: "Gary H. Harmon, Jr." <gharmon@txdirect.net>
Subject: Interim Belton Report
Message-ID: <199610052315.SAA10155@legend.txdirect.net>

Bill/NG1P and I made the 2 hour trip to Belton without difficulity. Beautiful weather and a nice turnout. Didn't take the time to note items and prices but I remember a few: I was offered a beautiful HT-37 fir $110 (marked $150) but I kept my hands in my pockets; saw what would have been a $50, 9.5 AT-1 if someone hadn't mounted a 8 pin octal socket in the front panel (no, I'm not kidding-I saw it); several SB-104 stations; Kerrville Ron had a van full of nice restorable BAs; a HT-33B that would make your heart flutter--it was so messed up-asking $150--same guy had a ruff SB-200 for $200; Bill/K5LLK was selling his 100V which looked very nice; lots of surplus stuff, including a ruff BC-348; saw a Globe King, B&W 5100 + SSB adapter, SB-220 on the same trailer as the AT-1; some common Hallicrafters; a restored SX-28; bunches of computer stuff including several tables of micro-channel IBM PS-1s and 2s (good luck selling them).

I brought home: a ruff HT-32B which I traded for 2 microphones; a SB-620 scanalizer; a new XT power supply; a Hallicrafters R-42 speaker; a SAMS handbook and an Antenna Manual.

Really enjoyed the trip, fellowship and goodie observation. Saw several BA folks but not many "Electric Radio" tee shirts. Perhaps someone else will have more details.

73,
gary

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<><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><>
<>          TOO many projects, NOT enough time!!           <>
<>                                                         <>
<>               Gary H. Harmon, Jr., K5JWK                <>
<>               6302 Robin Forest                         <>
<>                San Antonio, TX 78239-3218               <>
<>                (210) 657-1549                           <>
<>                gharmon@txdirect.net                     <>
<>                                                         <>
<>  Pack Unto Others As You Would Have Them Pack Unto You!  <>
<><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><>
```

From boatanchors@theporch.com Sat Oct 5 18:54:12 1996
From: johnz@earthlink.net
Subject: Johnson 110V Relay Plug
Message-ID: <199610051639.JAA16120@hungary.it.earthlink.net>

Al:

I couldn't find who you were addressing about the Johnson relay plug but you are correct about the pin spacing:

>>>
 1. Can anyone tell me where to find the proper size 2 prong plug that
           matches the holes on the back for hooking up a 110 v relay?
<<<
<I think it might be the same spacing as the small-pin crystals
<(might check the spacing to be sure), one of which you could cannibalize
<acn make a plug from it.

I did just this in setting up a Viking II for a Boatanchor Field Day last year (paired with a HRO-5T1). Take an oddball frequency HC6/U crystal and use solder wik to carefully remove the cover from its base. Punch and deburr a small hole in the cover's endplate to pass the wires (small speaker zip cord). i even was able to include a rubber grommet here. Remove the the crystal innards from the header pins, solder the wires to the header (after passing them through the hole in the cover) and resolder it in place. Check with an ohmmeter to be sure the "110V" pins are not shorted to the crystal cover! As an added saftey here I also soldered a flexible lead to the cover to run to the grounded chassis.

John Zitzelberger
Thousand Oaks, CA

From boatanchors@theporch.com Sat Oct 5 10:22:37 1996
From: n6nae@ix.netcom.com (Richard Humphrey)
Subject: RE: line voltage and BA operation.
Message-ID: <199610050403.VAA24371@dfw-ix11.ix.netcom.com>

I was wondering when somebody would raise a contrary voice. I go along with Jim W8ZR on this one.

I have spent the past several months researching line voltage and equipment design standards to see what interesting facts I could find.

Standard line voltage:
I can find no evidence in the technical literature to support the notion that AC line voltage was ever set at a nominal 110 volts. The oldest reference I can find is from 1906, and it says utility operators should set the line voltage above a minimum of 115 volts, never less, and to run it higher if possible. My hometown of Sacramento went live in 1895 at 125 volts AC, 60 Hz. Another reference from 1947 says that while it may be called a "110 volt lighting circuit, line voltage more normally measures about 120 volts". There's no proof in print that I can find to support 110 VAC ever existing.

The only system that ran at 110 volts was Edisons DC system. I think that since he was first, the expression "one-ten" entered our vocabulary at the turn of the century and we've been using it quite carelessly ever since. And it is easy to say!

Equipment design standards:
Most commercial gear since the early 1930s has been designed to one standard: nominal 117 volts, +- 10%. The RCA tube manual from 1940 says to test new designs at the 'standard' line voltage of 117, and normal equipment operation should be achieved at a low line of 106 and component dissipation limits should not be exceeded at a high line of 130. In fact, the RCA service manual from 1933 advises radio shops to service sets with the line adjusted to 120 volts. Prior to the early thirties, most gear seems to have been designed to the 115 volt, +- 5 volt spec.

Well, that's my 2 cents. Quit worrying about high line voltage. 120 to 125 is actually normal and has been for 100 years. It was that way when most BAs were new. I'm not saying things won't run cooler at 115 than 125, but don't get carried away! (And all Collins transformers run hot enough to fry eggs!)
Richard

From boatanchors@theporch.com Sat Oct 5 10:22:37 1996
From: vancleef@netcom.com (Henry van Cleef)
Subject: Re: line voltage and BA operation.
Message-ID: <199610050625.BAA08489@netcom22.netcom.com>

As Richard Humphrey discourses
>

> Standard line voltage:
> I can find no evidence in the technical literature to support the
> notion that AC line voltage was ever set at a nominal 110 volts. The
> oldest reference I can find is from 1906, and it says utility operators
> should set the line voltage above a minimum of 115 volts, never less,
> and to run it higher if possible. My hometown of Sacramento went live
> in 1895 at 125 volts AC, 60 Hz. Another reference from 1947 says that
> while it may be called a "110 volt lighting circuit, line voltage more
> normally measures about 120 volts". There's no proof in print that I
> can find to support 110 VAC ever existing.

I'm glad someone else is taking a whack at this myth of "line voltage inflation" in English-speaking North America (plus Quebec). Virtually all AC systems were installed with design center voltages of 115, 120, or 125 volts.

>
> The only system that ran at 110 volts was Edisons DC system. I think
> that since he was first, the expression "one-ten" entered our
> vocabulary at the turn of the century and we've been using it quite
> carelessly ever since. And it is easy to say!

Yes, the term "one-ten" has been used for all distribution systems, even by people who never were near an Edison distribution system. The "117.5 volt" RMA design standard of the thirties is the average of 110, 115, 120, and 125 volts. The reason for including 110 volts in this is for AC-DC equipment such as 300 ma. series-string radios, as well as the later AA5. For AC-only equipment, the standards ca. 1930 were for a design center of 120 volts +/- 10%, or 108-132 volts.

>
> Equipment design standards:
> Most commercial gear since the early 1930s has been designed to one
> standard: nominal 117 volts, +- 10%. The RCA tube manual from 1940
> says to test new designs at the 'standard' line voltage of 117, and
> normal equipment operation should be achieved at a low line of 106 and
> component dissipation limits should not be exceeded at a high line of
> 130. In fact, the RCA service manual from 1933 advises radio shops to
> service sets with the line adjusted to 120 volts. Prior to the early
> thirties, most gear seems to have been designed to the 115 volt, +- 5
> volt spec.

The RMA designation of 117.5 volts as a design center---I think this took place around 1936----actually represents a drop in specified line voltage. From a designer's perspective, low voltage presents most of the problems. In particular, consider the case of the AA5 AC-DC set. Operating on 120 VAC, the peak voltage on the rectifier is 169 volts, and most 35Z5 circuits producing 70 ma. do so at about 135 volts. On the Edison systems, the same circuit was hard-pressed to produce 95 volts B+.

An interesting cross-check is to add up the heater voltages in series-string sets. The 300 ma. sets (6A7, 6D6, 75, 43, 25Z5, and ballast tube) always tot up to about 120 or 121 volts. The AA5 (remember that a 35Z5 with a 150 ma. pilot lamp across pins 2 and 3, and plate fed from pin 3 is a 32 volt heater between pins 2 and 7) tots up to 119.8 volts. The six-tube version, with another 12SK7 and a 35L6, tots up a little lower----117.6 volts. These are design centers ten volts above the magic "one-ten" that were being used in the early-mid thirties.

>
> Well, that's my 2 cents. Quit worrying about high line voltage. 120 to 125 is actually normal and has been for 100 years. It was that way when most BAs were new. I'm not saying things won't run cooler at 115 than 125, but don't get carried away! (And all Collins transformers run hot enough to fry eggs!)

Another small consideration when looking at AC line voltages is the accuracy of AC instruments. Most multimeters have difficulty making 5% accuracy, and I have seen some very interesting indications on meters that worked well on DC.

From boatanchors@theporch.com Sat Oct 5 10:22:37 1996
From: Bob Roehrig <broehrig@admin.aurora.edu>
Subject: more BC-779/Sp200 questions
Message-ID: <Pine.ULT.3.95.961004224906.3251C-100000@admin.aurora.edu>

Well, I fired up the basket-case SP200 tonight and finally got a signal thru it. Until I get the expected replacement 1st IF transformer, I connected the mixer plate to the 2nd IF. This thing has so many stages, it still hears real well. Anyway, a couple questions regarding the power supply.

1) Have any of you SP200 owners measured actual voltages at the receiver terminal strip? What do you get?

2) How long is the original cord that connects the receiver to the power supply, and what guage wire is used?

I am having problems getting the correct voltages. Part of the problem is the old line voltage issue that has been discussed here before: having 120 volts and the supply taps are for either 115 or 125.

Selecting either tap, my hi voltage that feeds the 6F6 plates is quite high. The manual calls for 390V. The tube manual says 350 in the triode connected mode. If I use the lower tap, my filament voltage is only 5.7. I also had to add a 1K resistor in the bias chain to get that down to 50 volts (it was 60). But my bias supply is capacitor input where the diagram does not show this input capacitor. There must be variations in supplies.

```
        E-mail broehrig@admin.aurora.edu           73 de Bob, K9EUI
            CIS: Data / Telecom   Aurora University, Aurora, IL
```

From boatanchors@theporch.com Sat Oct 5 18:54:12 1996
From: "Allan Fritsche" <fritsche@msn.com>
Subject: NC-60B, and other things
Message-ID: <UPMAIL03.199610052333560020@msn.com>

Hi Gang, Hope everybody had fun at Belton...
Got the little NC-60B from Mike Maloney on the List. Boy did it bring back memories. Funny, I sent Mike a money order on Monday last week,
and he sent the receiver on Tuesday of the same week. Got the rec.
on Thursday and he still hasn't got my mail. What Gives. UPS is never faster
then Snail Mail. BUT I guess thats my problem. Mike, either I didn't lick the stamp or what ever, I will make it good for sure..
Now, checked all tubes and found the little 12av6 had a short, put new in and aligned. How refreshing to work on a little ALL - AMERICAN (5) for a
change instead of my dreaded (Hammurlands), just kidding of course.
One thing I like about the Nationals, and I have ZERO experience with them
is the copper plated Chassis.
Your Friend Al
fritsche@msn.com

From boatanchors@theporch.com Sat Oct 5 10:22:37 1996
From: "Richard L. Duell" <rduell@iac.net>
Subject: Not So Common Transmitters
Message-ID: <2.2.32.19961004234955.00679f14@iac.net>

I recently came across a couple of transmitter that I have never seen or heard of before. It's an Ellsworth model 40-W. It's a 6AK6 VFO feeding a 6AK6 doubler into an 807.
CW only. I have a hand drawn schematic and envelope rubber stamped:

ELLSWORTH RADIO TRANSMITTER
MODEL_______ SERIAL________
AN ORIGINAL DESIGN

The model number is hand written in as 40-W and the serial is 121. The initials EEE are written below the stamp.

The envelope for that the schematic was sent in has a blurred postmark, but it looks like the date is Dec. 23, 1952. It was mailed from Chicago Heights.

The unit needs quit a bit of cleaning and has some rust, It appears to be all there except for the plate meter. The unit appears to be hand made (I would guess to order).

Anyone have any history on this interesting piece of Ham history?

73, Rich - W5VDU
Somerville, OH

****
"Don't look back. Something may be gaining on you." - Satchel Paige -

From boatanchors@theporch.com Sat Oct 5 18:54:12 1996
From: Andy Wallace <wallace@mc.com>
Subject: Oct '96 Deerchester (Rochester) NH Report
Message-ID: <9610052126.AA06893@daffy>

Hi, All

I was there on Friday and Saturday. Am I tired! Nothing like walking from 9:00 AM to 5:00 PM to kill your calf muscles!

I did not take any notes this time. I am afraid to say that the boatanchor market is getting more disappointing every year. There is more and more compu-junk and VCR-junk each time!

Things I bought: RCA RBB receiver and power supply (0.5-4 Mc) with cables, $60. At this price I couldn't resist, and it looks like I'll have to track down Boatanchor Bob NA4G as this one isn't working! (See following post.) The seller had an RBC, the 4-twentysomething Mc receiver, but I thought I would enjoy this one more for AM DX and perhaps 160/40 use.

Meissner Signal Drifter, deluxe postwar model, looks pretty good (front panel not corroded badly) -- $25.

"Someday you'll own Generals" -- remember that tire slogan? Well...I guess it had to happen: I bought a Ranger I for $125. Complete, will look pretty good once the nicotine is gone, not sure if it's a factory-wired job yet or not.

Boatanchorites spotted: Deke Lightfoot and his son, Chris

Sieg of PIEXX fame, Mike and Cynthia Crestohl, John Michael, Rhyne Killian, and Pete Ferrand.

Best sighting of the show: a beautiful National NC-2-40D receiver, complete with speaker and spare grille cloth, $175. What a beautiful rig! I saw this one on Friday afternoon around 4 PM -- I am sure someone bought it, and it was almost me! This thing was really, really nice. The paint was excellent, and the plastic dial cover was nearly clear. Even the chrome strips and feet were shiny. My dad has one of these (and I believe he is the original owner) so I decided to pass on this one since Fate will probably pass the other to me (hopefully many years from now). But it was a beaut. Chris Sieg was fixing one of these for a friend, and that one was about as clean. Amazing!

Weirdest stuff forsale: someone set up a truck selling mostly hats on Friday -- big, floppy striped stovepipe hats like the Cat in the Hat wore. Whatever, they were a hit with the kids and at least it wasn't more compu-junk or carved onyx chess sets from Mexico (which I have seen at MIT).

A fair amount of BA showing, but not too much at decent prices. And not too much in good shape, either!

One fellow set up with a big batch: RME-45 and original speaker ($200), Millen Variarm VFO (no matching network) at $100 or less, I must have seen five National 1-10 or 1-10A receivers, some with PS some without, $50-250; National HFS (saw two); a couple of SX-20s; one beautiful Heath Marauder for $200 or less (I decided to pass...if I find a Mohawk it would be tempting); one guy got three R-390s in varying shape for $175; several NC-300s in varying shape and price, with one having the converters and speaker for $325; several Drake lines; several Harvey-Wells Bandmaster Seniors, two with VFOs ($100 for the pair!); a Vibroplex chrome Blue Racer for $150 asking on Friday; no SP-600s; no GPR-90s; many beat-up Hallis; two HRO-500s for $300 and $800+; a lot of stuff but I have seen better condition and prices at last Spring's fest.

Chris Sieg snagged a beautiful Valiant 2 and SSB adapter for a price which I will let HIM admit. :-D He also bought a prototype RCA receiver (many mini tubes, Collins VFO) which I hope he will tell us more about later.

One dealer had a Drake TR-4C, RV-4C, 4-PNB blanker, and AC-4, NEW IN THE BOX. I mean NEW. Plastic still on the rig! $425 and I was very tempted. He later sold the RV-4C separately for

$175 (I had asked him earlier if he would separate, he said no!) and I saw the rig was gone later also (less than $300). Maybe I should have bitten on that once-in-a-lifetime set, but $425 was a lot of dough and would have cleaned me out right away. Besides...I just got a TR-4CW from another BA member! :-D
No 2-A or 2-B Drakes.

Saw a lot of neat little accessories -- including a Globe deluxe VFO (slide-rule dial...kinda neat) and several National 6+2 VFOs. Johnson stuff was scarce, saw a couple of pricey Viking 2s and another dingy $225 Ranger. And the usual bounced-down-stairs bugs for $75 and up.

That's it from me! Next, the RBB story so far.

73,
--Andy
wallace@mc.com

From boatanchors@theporch.com Sat Oct 5 10:22:37 1996
From: "Robert S. Ross" <radiorob@serix.com>
Subject: Oscilloscope Book for Sale/Trade
Message-ID: <199610051129.LAA15432@cm.serix.com>

I have the following book for sale.

Encyclopedia on Cathode Ray Oscilloscopes and their uses. By John Rider and Uslan. 1955. Hard Cover HUGE book......1,000 Pages. Nice Blue Cloth Cover. Schematics, Charts and Heavily Illustrated. This is one MONSTER of a book!!Has to be the most definitive work on O-Scopes that I've ever seen. Please Email me Direct at....radiorob@serix.com

VG++ Condition.

PRICE........$25.00 USA + $6.00 USA Postage......It's REAL Heavy.

OR....I will trade this for ....

Early Audio Magazines/Literature, Nice Early Antique Radio Literature, Neat Early Display Tubes,or????????

Robert S. Ross VA3SW
Box 1003, Stn. B.
London, Ontario
CANADA N6A5K1

Thanks...Regards...ROB.

Robert S. Ross   VA3SW
London, Ontario, CANADA

Radio DX'er
Antique Radio Enthusiast

Stuck in a time warp..and lost in the ozone again!!!!!

From boatanchors@theporch.com Sat Oct 5 18:54:12 1996
From: "Ray L. Mote" <rmote@rain.org>
Subject: Ranger ant. relay connector
Message-ID: <Pine.SUN.3.94.961005093517.15276A-100000@coyote.rain.org>

One of mine had been modified to use standard pin tip jacks, the advantage being ready availability of plugs. Not a bad idea, so I kept it that way.
73.....Ray Mote, K5FKT <rmote@rain.org> Oxnard, CA ex-W6RIC

From boatanchors@theporch.com Sat Oct 5 18:54:12 1996
From: "Robert Fowle (KC8DBC)" <hammarlund@jacksonmi.com>
Subject: RCA BTA 5T saga continues
Message-ID: <2.2.16.19961005183107.1b67a3d4@fvmail.com>

well, it now sits next to here as i type this...not as bad as i thought it would be.
BUT! (ya know it was apt to happen.) somebody got in or went in, and of all things...took out the driver & finale sockets....(po'd me)...
the owner will hear of it, if nothing else, to let him know he has a thief somewhere...
it has a peter dahl power xfmr (nice) ...managed to only have to remove the
bloewer and motor (huge!) power, mod, & couple big chocks....the rest is as it was.... 8-)).
oh yes, when done...i swept the floor for them.....

later.....
==]-[->
Robert Fowle   KC8DBC
The HAMMARLUND Historian
Ph. 517-789-6721
1215 Winifred

Jackson, Mich. 49202-1946
E-mail: hammarlund@jacksonmi.com
Web Page: http://www.jacksonmi.com/hammarlund
HAMMARLUND LITERATURE WANTED
WANTED: MANUALS FOR ANY MAKE RADIO EQUIPMENT
===]-[->

From boatanchors@theporch.com Sat Oct 5 18:54:12 1996
From: Andy Wallace <wallace@mc.com>
Subject: RCA RBB receiver HELP needed!
Message-ID: <9610052135.AA06900@daffy>

I got a clean RBB at the Rochester NH flea for $60 including PS and cables. It doesn't work!

Symptom: no signals from the antenna.

Previous owner had neatly installed and wired an SO-239 on the back cutout. Checked the 6AB7 and 6SK7 tubes on the left side of the rig, they're OK. If I switch to band 4 and touch the link along the left side (near V102 6SK7 and running near the left side opening) I can hear a longwave beacon. There is a cutout on the left side marked RBB OSC with three wires going to three terminals. There is also a removable plate further back (toward the antenna input) which has a movable link. Right now, the link jumpers the two terminals farthest back. Touching the various terminals inside the input compartment with a screwdriver produces no noise.

I have no manual so am not an expert on the operation, but I think I have it right! The ZERO SET knob is an odd one, does it just zero the carrier meter? (Twisting it does change receiver noise.)

I'd like to get this one running. It's a grey one and I am very impressed with the construction inside. Beautiful job for 1941! It must have been fate. I saw an RBB and RBC in the Toppsfield MA flea around 1985 and almost bought them. I was using an HRO-50 at the time and I thought THAT was a big set. Yeesh. But after NA4G had praised these sets I had to try one out!

Can the PS handle two receivers? I see another power jack.

Any help appreciated! TNX guys and gals.

73,
--Andy
wallace@mc.com

From boatanchors@theporch.com Sat Oct 5 18:54:12 1996
From: "E.V. Sandy Blaize" <ebjr@worldnet.att.net>
Subject: Re: RCA RBB receiver HELP needed!
Message-ID: <19961005215808.AAB5365@LOCALNAME>

At 09:37 PM 10/5/96 +0000, you wrote:
>I got a clean RBB at the Rochester NH flea for $60 including
>PS and cables. It doesn't work!
>
>Symptom: no signals from the antenna.
>
>Previous owner had neatly installed and wired an SO-239 on
>the back cutout. Checked the 6AB7 and 6SK7 tubes on the
>left side of the rig, they're OK. If I switch to band 4
>and touch the link along the left side (near V102 6SK7
>and running near the left side opening) I can hear a longwave
>beacon. There is a cutout on the left side marked RBB OSC
>with three wires going to three terminals. There is also
>a removable plate further back (toward the antenna input)
>which has a movable link. Right now, the link jumpers the
>two terminals farthest back. Touching the various terminals
>inside the input compartment with a screwdriver produces
>no noise.
>
>I have no manual so am not an expert on the operation, but
>I think I have it right! The ZERO SET knob is an odd one,
>does it just zero the carrier meter? (Twisting it does
>change receiver noise.)
>
>I'd like to get this one running. It's a grey one and
>I am very impressed with the construction inside. Beautiful
>job for 1941! It must have been fate. I saw an RBB and RBC
>in the Toppsfield MA flea around 1985 and almost bought
>them. I was using an HRO-50 at the time and I thought
>THAT was a big set. Yeesh. But after NA4G had praised
>these sets I had to try one out!
>
>Can the PS handle two receivers? I see another power jack.
>
>Any help appreciated! TNX guys and gals.
>
>73,

>--Andy
>wallace@mc.com
>

Hey, if I'd been there and there was an NC-2-40D that nice, I'd SCOOPED it up!
I love those things!

73,

E. V. Sandy Blaize, W5TVW
"Boat Anchors collected, restored, modified, traded & used!"
ebjr@worldnet.att.net
417 Ridgewoood Drive
Metairie, LA., 70001
{Still looking for a Hallicrafters SR-75!}

From boatanchors@theporch.com Sat Oct 5 10:22:37 1996
From: deanbers@ix.netcom.com (Dean Berschauer)
Subject: Who's using a Gross CB-55, 150 or 250 Transmitter???
Message-ID: <199610050321.UAA06340@dfw-ix6.ix.netcom.com>

Who's using a Gross Transmitter?

If you have a Gross Radio Inc., CB-55, Radiophone Transmitter, featuring the use of the new Taylor T-20's in the output stage, which gives fine results on the 1.7, 3.5, 7, 14 and 30MC bands and features the CW-55 RF unit, P-55B Power Supply, L-40M Modulator ... then this original sales brochure and price list deserves to be displayed along side. (Or if you have the CB-150 or 250) Describe the unit and its yours.... <smile> Nice looking rack mounts by the way...

E-Mail:
Dean, KO6IJ
Deanbers@ix.netcom.com

From boatanchors@theporch.com Sat Oct 5 10:22:37 1996
From: CADV16@aol.com
Subject: WTB: Amperex 4-400AX or 4-400C
Message-ID: <961005111527_537206305@emout12.mail.aol.com>

Still looking for AMPEREX (only) 4-400AX or 4-400C tetrodes for restoration project. Need four of em (4). Contact, Elliott / KJ7KH, E-Mail: CADV16@AOL.COM or call (602) 991-0575. Thank You!

From boatanchors@theporch.com Sat Oct 5 18:54:12 1996
From: "Jim Wilson-EJW012" <Jim_Wilson-EJW012@email.mot.com>
Subject: WTB: H-P Step Attenuator
Message-ID: <Macintosh */PRMD=MOT/ADMD=MOT/C=US/@MHS>

From: Wilson-EJW012 Jim on Sat, Oct 5, 1996 7:42 PM
Subject: WTB: H-P Step Attenuator

I am looking for a source for an H-P 50 Ohm Step Attenuator -- something in the 0-110dB range. Any leads?

Jim Wilson
3815 NW 72 Dr.
Coral Springs, FL 33065-2244
tel: 954-723-4532 (day); 954-341-3306 (eve)
fax: 954-723-5064
email: EJW012@email.mot.com

From boatanchors@theporch.com Sat Oct 5 10:22:37 1996
From: k7yha@juno.com (Richard H. Arland)
Subject: WTB: Heathkit keyer/paddles
Message-ID: <19961005.131303.7839.0.k7yha@juno.com>

Gang:

Looking for a Heathkit keyer. I have forgotten the model number but it was the one that was popular in the mid-to-late 70's. It had built in paddles and could take another set of paddles plugged into the back. (This is NOT the big old clunky looking keyer of the early 70's that used a set of microswitches connected to the paddle lever). As I recall, the model I am looking for was capable of iambic operation.

Can anyone help with the model number and availability?

73 es tnx.

rich K7YHA